

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/550,584A  
Source: IFWP  
Date Processed by STIC: 06/20/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 06/20/2006

PATENT APPLICATION: US/10/550,584A

TIME: 12:08:34

Input Set : A:\PH-2004 Revised Sequence Listing 26October05.txt

Output Set: N:\CRF4\06202006\J550584A.raw

```

3 <110> APPLICANT: SHINOZAKI, Kazuko
4     KATSURA, Koji
5     ITO, Yusuke
7 <120> TITLE OF INVENTION: Stress-Inducible Promoter and Its Uses
W--> 8 <130> FILE REFERENCE: 382.1048
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/550,584A
C--> 11 <141> CURRENT FILING DATE: 2005-09-22
13 <150> PRIOR APPLICATION NUMBER: JP 2003-80847
14 <151> PRIOR FILING DATE: 2003-03-24
16 <160> NUMBER OF SEQ ID NOS: 12
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1066
22 <212> TYPE: DNA
23 <213> ORGANISM: Oryza sativa
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Inventor: Shinozaki, Kazuko; Katsura, Koji; Ito, Yusuke
28 <400> SEQUENCE: 1
29 tcatcagcta tcatcaaagc gaaggaaaga aagaaaaata aaaggaaaag aactggctgg 60
30 aaattagaga agccccggac gactcgatct ggggggtggca aattaatcag tgtgatcaac 120
31 agggataact tatcccgctc gaccaaatac accaaccaaa ccaagaccgc atttgtagg 180
32 ctgtgaaaga cggatcagtg ggaccctgat ctacggaccc catatgtcac cgtccaggtc 240
33 tctggatctc tcccgctcgt ctaatcagac accgcgcgcg cggtgccgct gctctcgagc 300
34 cgtgtcccg ccccaactcg tcacaaaagc gatcacagac tcttccttcc tctgctggga 360
35 gagaagaaaa attggccgcg atgatgccga taaagaggaa aaagggatga gaatccgatg 420
36 gaaaaaaact gatgttaatc tatcgctact gctgcgcact aagacgaatc gtatccgaac 480
37 aagaaacgct tacgttactg ttcctaaatg gatcgctccg ctcatcactt aacaaaaaat 540
38 cgattaggaa attgacggac agcgacgccc gaagccaagt gtctcgctcg gtaggcgctg 600
39 aggcctcgaa gcagagggag cggagaggcg gacgcgcgc ccaagcctcc tctccctcgg 660
40 tgacacggcc gtctggctcc acatggcgcc gacctctccc gatgcgtcca cccgtccgga 720
41 ggcaccgcca cgtcggaacc agccggccgc cccacgcgat tgccgacacg cgtcgcggcg 780
42 ccactggctc acccgctgcc tgcctctgcc tgcccccat ctgctcgcca tttcccgccc 840
43 acgcttcttg tcctcgctgc gcctacgcgt acgtacgata caaacgcgcg acctttcgat 900
44 cccctccgct atataaggag ggcattctgcc tcgccacctt cttcatccga aagcaaaagc 960
45 gactcgtcac agctcaaaca agtcaagagc gaatagttct tgctgatctg ttgtttgatt 1020
46 acttttagttc tcgagaggct ttagctgaat ccatcgatcg aggatg 1066
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 1245
51 <212> TYPE: DNA
52 <213> ORGANISM: Oryza sativa
54 <400> SEQUENCE: 2
55 gctagcagag ctcgtcacag ctcaaacaag tcaagagcga atagttcttg ctgatctggt 60
56 gtttgattac ttttagttctc gagaggcttt agctgaatcc atcgatcgat catggaggat 120

```

## RAW SEQUENCE LISTING

DATE: 06/20/2006

PATENT APPLICATION: US/10/550,584A

TIME: 12:08:34

Input Set : A:\PH-2004 Revised Sequence Listing 26October05.txt

Output Set: N:\CRF4\06202006\J550584A.raw

```

57 gagaggaaca cggagagcca ccagggtggc gaggctgcag agcagggtgga ggtgaaggac 180
58 aggggcctct tcgacaacct ccttggcagg aagaaggacg atcagccgga ggagaagaag 240
59 catgaggagg agcttgtcac cggcatggag aaggtctccg tggagagacc aaagaaggag 300
60 gagcaccacg ccgaggcgca gaagaaggag agcctcctct ccaagctgca ccgatccagc 360
61 tccagctcca gctcgtcgag tgatgaggaa gaggaggtga tcgatgacaa cggcgagggtg 420
62 gtcaagagga agaagaagaa ggggctcaag gagaagatca aggagaagct gcccgccac 480
63 aaggaccatg ccggtgagca tgctcctccg ccgcggcgca cgggcttccc gcgccggctc 540
64 cgctgcatcc gtggtgacgg ccgcgcccac gccactcctg ctcccgtggt gactcacggc 600
65 gatcaccacc acgacaccgc cgtccccgtg gaaaagatcg agggatgatca cgccagacgg 660
66 aggcgaccct gccacgtgca cccgaggagg aaaaaagggc ttcctcgaca agatcaagga 720
67 gaagctgccc ggcgccaca agaagccgga agacgcaact gctgtgccgc cgccggccgc 780
68 ctccaccggt gctcctgcca ctactccggc gccagcacac ccaccgccg ctacagagga 840
69 agtgagcagc ccggtatgga aggagaagaa gggatatactg ggcaagatca tggagaaact 900
70 gcccggttac cacaagggtc ccggcgagga agacaagacc gccgccgccg ccaccggcga 960
71 gcacaagagc agcgcttaat tggggcggtg gtgagaccag gccatggttg gaatttgga 1020
72 gtgtttggcg tgtgttagtt tgggtgcttt tctgcaactg agctttgtta agttcgtgtc 1080
73 aagattggtc aaggcctggt cagcgaagcc cgatcagtga tcgaagtttg tgtttcgtgt 1140
74 ggggtacggg cttcagtttg ctatagtcaa gtactagatg ttgagtttg ttaattatta 1200
75 ttggcactct tgtattggtt ttgggctggg cattctgcct tggtgta 1245
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 28
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
82 <400> SEQUENCE: 3
83 caggaagctt tcatcagcta ttcacaa 28
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 28
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
90 <400> SEQUENCE: 4
91 ccggtacctc gatcagtgga ttcagcta 28
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 1608
94 <212> TYPE: DNA
95 <213> ORGANISM: Oryza sativa
96 <400> SEQUENCE: 5
97 caacaaccac tactgaacac ggctaagtgt gtttcctctc ctgaagatg tcgttattgc 60
98 gttcttttct gctattccat acatatcaat ctctagagga acaccttact ctgcttttca 120
99 gacaagggac ggtggtaaat cagctcgat cctccatggg gtgtgctccg aaaaaccttc 180
100 cctcatgcat tagagatcat ggggtggaatt tagcgatggc acaccttatt tataatttag 240
101 ttactctccg gcggtaccat ctgcttccgt ttgttgatcg atgctggcga tgatgtgtgt 300
102 gagtatcgat caacagaatg atcggacgct atttttgggg tcgttttttt tcagcattga 360
103 ggagggatga ggattgcttg caacatgcag gtgctgctca aaacaacggg taagcagata 420
104 tccgtcaatt tgatagtaag atctgtaacg cgtggtcttt cgagctgaaa actatggact 480
105 ctttgaaaca aagataatat tatattaaat tctattattc aaagatatct aaatatttag 540

```

## RAW SEQUENCE LISTING

DATE: 06/20/2006

PATENT APPLICATION: US/10/550,584A

TIME: 12:08:35

Input Set : A:\PH-2004 Revised Sequence Listing 26October05.txt

Output Set: N:\CRF4\06202006\J550584A.raw

```

117 aaagatatta ataatgttat taaactttga cttacttaaa acaagtccaa aactgcatgt 600
118 ccctaaatcg ccagaagata aggaacacct gtaccctgta taacagaggg gtatgaaatt 660
119 tggacacgag gcttcttttg cagacgtggc gctgagttag cttggctcgc ttgggtcaaac 720
120 tccgtgcagg gacattcagt tagctagcta gcagcattgt cgacaataag atagccttta 780
121 aatgttagca ctcaccagct tgtcaaaaac caaggcttgg tgacggcggc ttcagaatga 840
122 aggatagatg gataaatgtc tagaatatta taaagtccaa caaaagatgg agcacatgca 900
123 tgaaagatta cgtacacgaa tgcagttgat acagtggatg ttaggcataa gaagcactat 960
124 aaatagaggg tgcaatcccc attgccctac acaactacac aagtcgacta tcattacaag 1020
125 gaaatttaag cgaccacgaa ggtatgaaag catagcagta ctctgcattt tttttttttg 1080
126 atgttgttct agctagctct gcttaagggt ttcctttctt tcgttctttg tttttttttt 1140
127 gtaagctcaa ctagttgcat gcaatttaga ttttatcctt ttacagttgg aaaaacatcc 1200
128 ctataaatat taccatgaat gcatagagat tgcaggaagc tacaaattgg acgactgatt 1260
129 ccaaaaaaaa aaaaaaatc agatgggtcac atcattgcta ttgttttttg aaagtacaaa 1320
130 agcactcggt cggattcaaa ttacttgtgc aaattaatta aaaaccatag aaatgatcat 1380
131 gttaccctta cacatttcgg aaacaatacc atatatgtta gtgtgcgatc attcaaatg 1440
132 atttatatct gaacaaaact gagtgggaat acggtgagca aacttgacga ttccaaaata 1500
133 atttatattt aggcaaaatt ttacaacttc aaagttcaaa caagctaacc tgaaaaatca 1560
134 tgtttgaatt tactaagatg tgcttttgta tttactaaac agagtatg 1608

```

137 &lt;210&gt; SEQ ID NO: 6

138 &lt;211&gt; LENGTH: 927

139 &lt;212&gt; TYPE: DNA

140 &lt;213&gt; ORGANISM: Oryza sativa

142 &lt;220&gt; FEATURE:

143 &lt;221&gt; NAME/KEY: CDS

144 &lt;222&gt; LOCATION: (69)..(782)

146 &lt;400&gt; SEQUENCE: 6

```

C--> 147 cacactcgag cagagcaaat acagttcagg aatcaggagc aagcagaaac acacacacaa 60
149 atccgaag atg tgc ggg atc aag cag gag atg agc ggc gag tcg tcg ggg 110
150 Met Cys Gly Ile Lys Gln Glu Met Ser Gly Glu Ser Ser Gly
151 1 5 10
153 tcg ccg tgc agc tcg gcg tcg gcg gag cgg cag cac cag acg gtg tgg 158
154 Ser Pro Cys Ser Ser Ala Ser Ala Glu Arg Gln His Gln Thr Val Trp
155 15 20 25 30
157 acg gcg ccg ccg aag agg ccg gcg ggg cgg acc aag ttc agg gag acg 206
158 Thr Ala Pro Pro Lys Arg Pro Ala Gly Arg Thr Lys Phe Arg Glu Thr
159 35 40 45
161 agg cac ccg gtg ttc cgc ggc gtg cgg cgg agg ggc aat gcc ggg agg 254
162 Arg His Pro Val Phe Arg Gly Val Arg Arg Gly Asn Ala Gly Arg
163 50 55 60
165 tgg gtg tgc gag gtg cgg gtg ccc ggg cgg cgc ggc tgc agg ctc tgg 302
166 Trp Val Cys Glu Val Arg Val Pro Gly Arg Arg Gly Cys Arg Leu Trp
167 65 70 75
169 ctc ggc acg ttc gac acc gcc gag ggc gcg gcg cgc gcg cac gac gcc 350
170 Leu Gly Thr Phe Asp Thr Ala Glu Gly Ala Ala Arg Ala His Asp Ala
171 80 85 90
173 gcc atg ctc gcc atc aac gcc ggc ggc ggc ggc ggc ggg gga gca tgc 398
174 Ala Met Leu Ala Ile Asn Ala Gly Gly Gly Gly Gly Gly Gly Ala Cys
175 95 100 105 110
177 tgc ctc aac ttc gcc gac tcc gcg tgg ctc ctc gcc gtg ccg cgc tcc 446

```

## RAW SEQUENCE LISTING

DATE: 06/20/2006

PATENT APPLICATION: US/10/550,584A

TIME: 12:08:35

Input Set : A:\PH-2004 Revised Sequence Listing 26October05.txt

Output Set: N:\CRF4\06202006\J550584A.raw

```

178 Cys Leu Asn Phe Ala Asp Ser Ala Trp Leu Leu Ala Val Pro Arg Ser
179          115          120          125
181 tac cgc acc ctt cgc cga cgt ccg cca cgc cgt gcc gag gcc gtc gag 494
182 Tyr Arg Thr Leu Arg Arg Arg Pro Pro Arg Arg Ala Glu Ala Val Glu
183          130          135          140
185 gac ttc ttc cgg cgc cgc ctc gcc gac gac gcg ctg tcc gcc acg tcg 542
186 Asp Phe Phe Arg Arg Arg Leu Ala Asp Asp Ala Leu Ser Ala Thr Ser
187          145          150          155
189 tcg tcc tcg acg acg ccg tcc acc cca cgc acc gac gac gac gag gag 590
190 Ser Ser Ser Thr Thr Pro Ser Thr Pro Arg Thr Asp Asp Asp Glu Glu
191          160          165          170
194 tcc gcc gcc acc gac ggc gac gag tcc tcc tcc ccg gcc agc gac ctg 638
195 Ser Ala Ala Thr Asp Gly Asp Glu Ser Ser Ser Pro Ala Ser Asp Leu
196 175          180          185          190
198 gcg ttc gaa ctg gac gtc ctg agt gac atg ggc tgg gac ctg tac tac 686
199 Ala Phe Glu Leu Asp Val Leu Ser Asp Met Gly Trp Asp Leu Tyr Tyr
200          195          200          205
202 gcg agc ttg gcg cag ggg atg ctc atg gag cca cca tcg gcg gcg ctc 734
203 Ala Ser Leu Ala Gln Gly Met Leu Met Glu Pro Pro Ser Ala Ala Leu
204          210          215          220
206 ggc gac gac ggt gac gcc atc ctc gcc gac gtc cca ctc tgg agc tac 782
207 Gly Asp Asp Gly Asp Ala Ile Leu Ala Asp Val Pro Leu Trp Ser Tyr
208          225          230          235
210 tagagctcaa tcaactgtac aattttgcct cttttttctc tcttttctgg cttccgatgc 842
211 caaaattttg gtactgtacg gacactactt tcggtaatgt gatggaacaa gttgcaaac 902
212 aaaaaaaaaa aaaaaaaaaa aaaaaa 927
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 944
217 <212> TYPE: DNA
218 <213> ORGANISM: Arabidopsis thaliana
220 <220> FEATURE:
221 <221> NAME/KEY: CDS
222 <222> LOCATION: (135)..(785)
224 <400> SEQUENCE: 7
225 cctgaattag aaaagaaaga tagatagaga aataaatatt ttatcatacc atacaaaaaa 60
226 agacagagat cttctactta ctctactctc ataaacctta tccagtttct tgaaacagag 120
227 tactcttctg atca atg aac tca ttt tct gcc ttt tct gaa atg ttt ggc 170
228          Met Asn Ser Phe Ser Ala Phe Ser Glu Met Phe Gly
229          1          5          10
230 tcc gat tac gag tct ccg gtt tcc tca ggc ggt gat tac agt ccg aag 218
231 Ser Asp Tyr Glu Ser Pro Val Ser Ser Gly Gly Asp Tyr Ser Pro Lys
232          15          20          25
233 ctt gcc acg agc tgc ccc aag aaa cca gcg gga agg aag aag ttt cgt 266
234 Leu Ala Thr Ser Cys Pro Lys Lys Pro Ala Gly Arg Lys Lys Phe Arg
235          30          35          40
236 gag act cgt cac cca att tac aga gga gtt cgt caa aga aac tcc ggt 314
237 Glu Thr Arg His Pro Ile Tyr Arg Gly Val Arg Gln Arg Asn Ser Gly
238 45          50          55          60
239 aag tgg gtg tgt gag ttg aga gag cca aac aag aaa acg agg att tgg 362

```

## RAW SEQUENCE LISTING

DATE: 06/20/2006

PATENT APPLICATION: US/10/550,584A

TIME: 12:08:35

Input Set : A:\PH-2004 Revised Sequence Listing 26October05.txt

Output Set: N:\CRF4\06202006\J550584A.raw

```

240 Lys Trp Val Cys Glu Leu Arg Glu Pro Asn Lys Lys Thr Arg Ile Trp
241          65          70          75
242 ctc ggg act ttc caa acc gct gag atg gca gct cgt gct cac gac gtc 410
243 Leu Gly Thr Phe Gln Thr Ala Glu Met Ala Ala Arg Ala His Asp Val
244          80          85          90
245 gcc gcc ata gct ctc cgt ggc aga tct gcc tgt ctc aat ttc gct gac 458
246 Ala Ala Ile Ala Leu Arg Gly Arg Ser Ala Cys Leu Asn Phe Ala Asp
247          95          100          105
248 tcg gct tgg cgg cta cga atc ccg gaa tca acc tgt gcc aag gaa atc 506
249 Ser Ala Trp Arg Leu Arg Ile Pro Glu Ser Thr Cys Ala Lys Glu Ile
250          110          115          120
251 caa aag gcg gcg gct gaa gcc gcg ttg aat ttt caa gat gag atg tgt 554
252 Gln Lys Ala Ala Ala Glu Ala Ala Leu Asn Phe Gln Asp Glu Met Cys
253 125          130          135          140
254 cat atg acg acg gat gct cat ggt ctt gac atg gag gag acc ttg gtg 602
255 His Met Thr Thr Asp Ala His Gly Leu Asp Met Glu Glu Thr Leu Val
256          145          150          155
257 gag gct att tat acg ccg gaa cag agc caa gat gcg ttt tat atg gat 650
258 Glu Ala Ile Tyr Thr Pro Glu Gln Ser Gln Asp Ala Phe Tyr Met Asp
259          160          165          170
260 gaa gag gcg atg ttg ggg atg tct agt ttg ttg gat aac atg gcc gaa 698
261 Glu Glu Ala Met Leu Gly Met Ser Ser Leu Leu Asp Asn Met Ala Glu
262          175          180          185
263 ggg atg ctt tta ccg tcg ccg tcg gtt caa tgg aac tat aat ttt gat 746
264 Gly Met Leu Leu Pro Ser Pro Ser Val Gln Trp Asn Tyr Asn Phe Asp
265          190          195          200
266 gtc gag gga gat gat gac gtg tcc tta tgg agc tat taaaattcga 792
267 Val Glu Gly Asp Asp Asp Val Ser Leu Trp Ser Tyr
268 205          210          215
269 tttttattttc catttttgggt attatagctt tttatacatt tgatcctttt ttagaatgga 852
270 tcttcttctt tttttgggttg tgagaaacga atgtaaatgg taaaagttgt tgtcaaagtc 912
271 aaatgttttt gagtgcagaa tatataatct tt 944
274 <210> SEQ ID NO: 8
275 <211> LENGTH: 353
276 <212> TYPE: DNA
277 <213> ORGANISM: Oryza sativa
279 <400> SEQUENCE: 8
280 gctagcagag tagcaatcca ttccgatcca tcaaatttct cttgagaccg tagagagaga 60
281 gagaggcgcc aaccatggcc ggcacatcc acaagatcga ggagaagctc cacatgggcg 120
282 gaggcgagca caagaaggaa gacgagcaca agaaggaggg ggagcaccac aagaaggacg 180
283 gggagcacaa ggaaggcgtg gtggagaaga tcaaggacaa gatcaccggc gaccacggcg 240
284 acggcggcga gcacaaggag aagaaggaca agaagaagaa gaaggagaag aagcacggcg 300
285 aggagggccca ccaccacgac ggccacagca gcagcagcag cgacagcgac tgg 353
288 <210> SEQ ID NO: 9
289 <211> LENGTH: 545
290 <212> TYPE: DNA
291 <213> ORGANISM: Oryza sativa
293 <400> SEQUENCE: 9
294 cgactatcat tacaaggaaa ttttaagcgac cacgaagagt atgacgctgg tgaagattgg 60

```

VERIFICATION SUMMARY

DATE: 06/20/2006

PATENT APPLICATION: US/10/550,584A

TIME: 12:08:36

Input Set : A:\PH-2004 Revised Sequence Listing 26October05.txt

Output Set: N:\CRF4\06202006\J550584A.raw

L:8 M:283 W: Missing Blank Line separator, <130> field identifier

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:147 M:112 C: (48) String data converted to lower case,

M:112 Repeated in SeqNo=6